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Substitute for form 1449/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

*(Use as many sheets as necessary)*

**Complete if Known**

Application Number	10/634,531
Filing Date	August 5, 2003
First Named Inventor	Adam R. Johnson
Art Unit	1624
Examiner Name	Kahsay Habte
Attorney Docket Number	PC25201A

Sheet	2	of	4
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## U. S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	1 <sup>6</sup>
		Country Code <sup>2</sup> -Number <sup>4</sup> -Kind Code <sup>3</sup> (if known)	MM-DD-YYYY			
		WO 02/34726 A2	05-02-2002	Noe, et al		
		WO 02/34753 A2	05-02-2002	Bronk, et al		
		WO 01/14344	03-01-2001	Herrmann, et al		
		EP 1069110	01-17-2001	Kimura, et al		
		WO 96/28430	09-19-1996	Nussbaumer		
		WO 03/076416	09-18-2003	Gaudilliere, et al		

Examiner Signature		Date Considered	
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Sheet	3	of	4	Attorney Docket Number	PC25201A

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Office Action from 10/264,764 mailed 6.16.03	
		Billinghurst, et al, "Comparison of the degradation of type II collagen and proteoglycan in nasal and articular cartilages induced by interleukin-1 and the selective inhibition of type II collagen cleavage by collagenase", Arth. & Rheum. Vol. 43 (3) March 2000, pp. 664-672.	
		Billinghurst, et al, "Enhanced Cleavage of Type II Collagen by Collagenases in Osteoarthritic Articular Cartilage", J. Clin. Invest., Vol. 99 (7) April 1997 pp.1534-1545.	
		Chen, et al, "Structure-based Design of a Novel, Potent, and Selective Inhibitor for MMP-13 Utilizing NMR Spectroscopy and Computer-Aided Molecular Design", J. Am. Chem. Soc., Vol. 122 (40), 2000, pp. 9648-9654.	
		Dahlberg, et al, "Selective Enhancement of Collagenase-Mediated Cleavage of Resident Type II Collagen in Cultured Osteoarthritic Cartilage and Arrest with a Synthetic Inhibitor That Spares Collagenase 1 (Matrix Metalloproteinase 1)", Arth. & Rheum. Vol. 43 (3), March 2000, pp.673-682.	
		Freement, et al, "In situ zymographic localisation of type II collagen degrading activity in osteoarthritic human articular cartilage" Ann. Rheum. Dis. Vol. 58 1999 pp.357-365.	
		Hirota, et al, "Novel Synthesis of Pyrido[3,4-d]Pyrimidines, Pyrido[2,3-d]-Pyrimidines, and Quinazolines via Palladium-Catalyzed Oxidative Coupling", Heterocycles, Vol. 37 (1) 1994 pp. 563-570.	
		Lovejoy, et al, " Crystal structures of MMP-1 and -13 reveal the selectivity of collagenase inhibitors" Nature Structural Bio., Vol 6 (3), March 1999 pp. 217-221.	
		Mitchell, et al, "Cloning, Expression, and Type II Collagenolytic Activity of Matrix Metalloproteinase-13 from Human Osteoarthritic Cartilage", J. Clin. Invest., Vol. 97 (3), February 1996, pp. 761-768.	
		Moy, et al, "High-resolution Solution Structure of the Catalytic Fragment of Human Collagenase-3 (MMP-13) Complexed with a Hydroxamic Acid Inhibitor", J. Mol. Bio., Vol. 302, 2000, pp. 671-689.	

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		Neuhold, et al, "Postnatal expression in hyaline cartilage of constitutively active human collagenase-3 (MMP-13) induces osteoarthritis in mice", J. Clin. Invest., Vol. 107 (1), pp. 35-44.	
		Reboul, et al, "The New Collagenase, Collagenase-3, Is Expressed and Synthesized by Human Chondrocytes but not by Synviocytes", J. Clin. Invest., Vol. 97 (9) May 1996, pp. 2011-2019.	
		Wernicke, et al, "Cloning of Collagenase 3 from the Synovial Membrane and Its Expression in Rheumatoid Arthritis and Osteoarthritis", J. of Rheum. 1996, Vol. 23 (4), pp. 590-595.	
		"Invitation to Pay Additional Fees" from corresponding PCT International Applic. no. PCT/IB03/03518 (5 pages)	

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